

Oregon Real-time GNSS Network Brief Update.



- **2024 – OGUG**
- **Randy Oberg, PLS**
- **Eric Zimmerman, PLS**
- **June 2024**

2023 Upgrades to Full GNSS

- **MTCL** - Mitchell
- **GRAS** - Grass Valley
- **WAMC** - Wamic
- **UKIA** - Ukiah
- **SPRA** - Spray
- **COND** - Condon
- **FWBD** - Farewell Bend





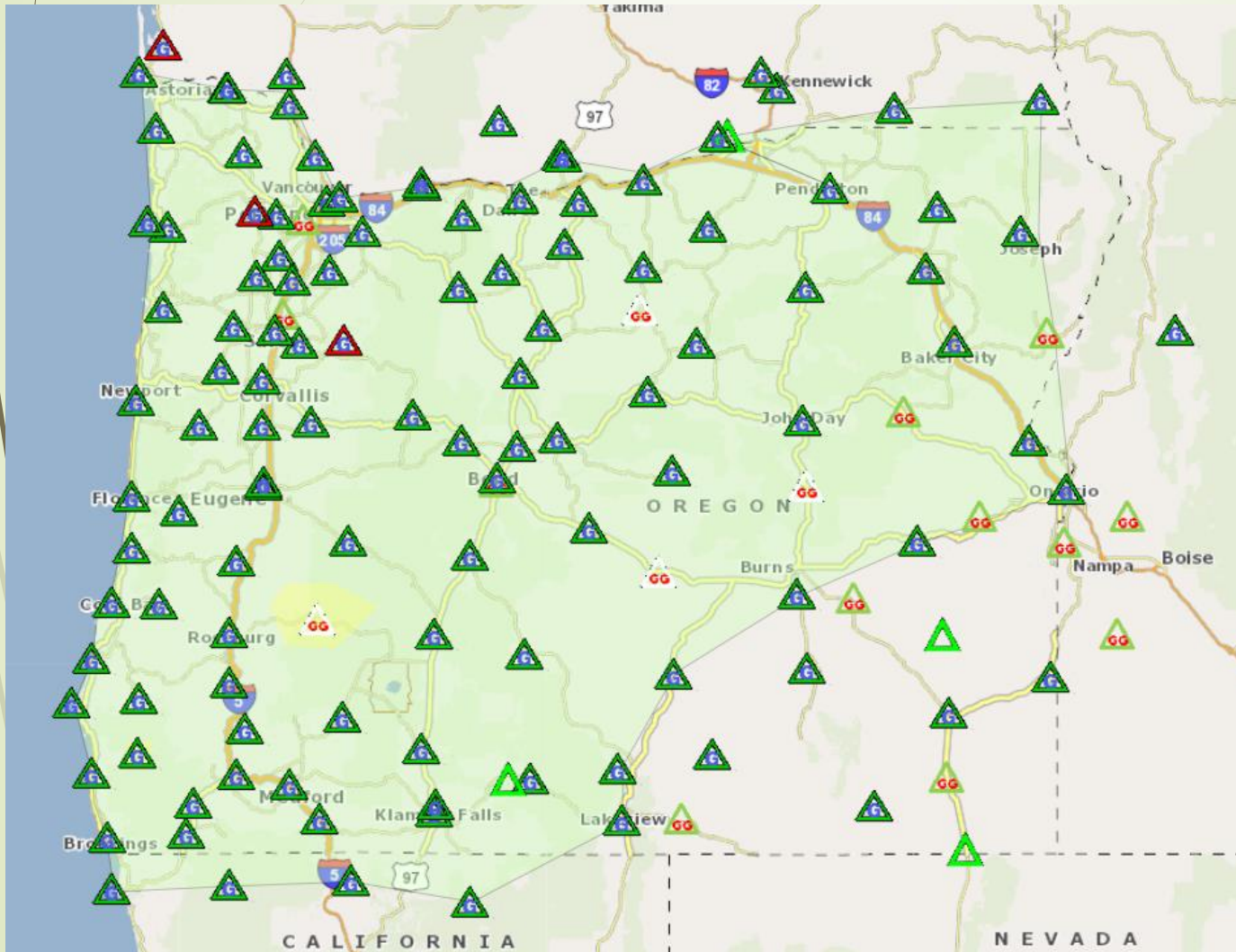
2024 Plans to Upgrade to Full GNSS

- **ADEL** - Adel
- **BRNT** – Burnt River School (Unity)
- **HRPR** – Harper School
- **MCSO** – Marion County Surveyors Office (Salem)
CWU Contribution
- **COBO** – City of Beaverton
- **CRAN** - Crane
- **HALF** – Halfway





Oregon Real-time GNSS Network



ORGN Stations Legend

Ground Station Status

- GNSS Active
- GNSS Alert
- GNSS Inactive
- GLONASS Active
- GLONASS Alert
- GLONASS Inactive
- GLONASS Planned
- GPS Active
- GPS Alert
- GPS Inactive
- GPS Planned

Coverage Area

- No Coverage
- Coverage



All Stations List+

(Coordinates & Links to Station Pages, Partners, RINEX data and Site Logs)

All Stations List							
December 29, 2023							
GNSS Legend GPS=GPSonly, GG= GPS+GLONASS, GNSS=GPS+GLONASS+Galileo							
Station ID	Ref ID	Location	Latitude	Longitude	Ellipsoid Height (meters) @ ARP	Site Logs	GNSS
ADEL	206	Adel	42 10 35.41966	-119 53 45.06314	1386.0970	ADEL	GG
AGNS	292	Agness	42 33 09.94155	-124 03 32.74455	51.763	AGNS	GNSS
ANAT	201	Anatone, WA	46 07 58.29503	-117 08 07.48104	1087.765	ANAT	GNSS
ARLN	202	Arlington	45 42 29.52532	-120 10 59.71154	120.812	ARLN	GNSS
ASHL	203	Ashland	42 10 50.47299	-122 40 12.55241	609.147	ASHL	GNSS
BASQ	270	Yard	42 24 41.76354	-117 51 46.84978	1349.14	BASQ	GG
BEND	205	Bend, City of	44 03 25.75727	-121 18 54.61222	1096.257	BEND	GG
BLY1	204	Bly	42 24 24.62755	-121 02 56.57650	1313.889	BLY1	GNSS
BNDM	278	Maintenance)	44 05 21.80729	-121 18 27.07883	1070.737	BNDM	GNSS
BRNT	222	Burnt River School (Unity)	44 26 24.77044	-118 11 28.69155	1213.195	BRNT	GG
BURN	271	Burns Jct	42 46 46.18843	-117 50 36.65278	1181.437	BURN	GNSS
CABL	206	Cape Blanco	42 50 09.94322	-124 33 47.98644	38.291	CABL	GNSS
CATH	207	Cathlamet, WA	46 11 50.27547	-123 22 02.11302	56.670	CATH	GNSS
CHEM	208	Chemult	43 13 27.68494	-121 47 08.94043	1440.413	CHEM	GNSS
CHZZ	256	Tillamook	45 29 11.44035	-123 58 41.18384	51.145	CHZZ	GNSS
COBO	209	Beaverton, City of	45 29 08.88914	-122 47 50.56291	47.207	COBO	GG
COND	210	Condon	45 14 16.44868	-120 10 52.90279	865.844	COND	GNSS
New Septentrio Receiver (PolarX5) and Antenna (SEPCHOKE B3E6 SPKE) Sept 27, 2023							
CRAN	213	CRAN-Crane	43 24 56.80137	-118 34 29.70705	1248.78	CRAN	GG
CROK	211	Castle Rock, WA	46 16 28.54446	-122 54 45.09357	1.470	CROK	GNSS
CTPT	212	Central Point	42 22 36.08473	-122 53 38.19500	370.975	CTPT	GNSS
DANP	247	Richland WA	46 16 48.13634	-119 16 34.52974	104.176	DANP	GNSS
DOWL	237	Eugene	44 03 57.45920	-123 05 53.27962	112.197	DOWL	GNSS
ELG2	341	Elgin	45 33 53.49145	-117 55 42.27526	816.489	ELG2	GNSS
ENTR	214	Enterprise	45 25 52.50655	-117 17 17.03741	1127.055	ENTR	GNSS
FWBD	215	Farewell Bend POE	44 17 30.78145	-117 13 17.85372	631.934	FWBD	GNSS
New Septentrio Receiver (PolarX5) and Antenna (SEPCHOKE B3E6 SPKE) Sept 28, 2023							
GIWD	217	Glenwood . WA	46 01 11.36775	-121 17 18.92579	561.420	GIWD	GNSS



NTRIP Single Base RTK Product List

May 29, 2024
Port 9879

NTRIP Mount Point	Location	Data format	Constellations
ADEL_GG3x	Adel	RTCM 3.x (Extended)	G/R/-/-/-
AGNS_GG3x	Agnes	RTCM 3.x (Extended)	G/R/-/-/-
AGNS_GNSS	Agnes	RTCM 3.x (MSM4)	G/R/E/C/J
ANAT_GG3x	Anatone, WA	RTCM 3.x (Extended)	G/R/-/-/-
ANAT_GNSS	Anatone, WA	RTCM 3.x (MSM4)	G/R/E/C/J
ARLN_GG3x	Arlington	RTCM 3.x (Extended)	G/R/-/-/-
ARLN_GNSS	Arlington	RTCM 3.x (MSM4)	G/R/E/C/J
ASHL_GG3x	Ashland	RTCM 3.x (Extended)	G/R/-/-/-
ASHL_GNSS	Ashland	RTCM 3.x (MSM4)	G/R/E/C/J
BASQ_GG3x	Basque	RTCM 3.x (Extended)	G/R/-/-/-
BEND_GG3x	Bend	RTCM 3.x (Extended)	G/R/-/-/-
BLY1_GG3x	Bly	RTCM 3.x (Extended)	G/R/-/-/-
BLY1_GNSS	Bly	RTCM 3.x (MSM4)	G/R/E/C/J
BNDM_GG3x	Bend Maintenance	RTCM 3.x (Extended)	G/R/-/-/-
BNDM_GNSS	Bend Maintenance	RTCM 3.x (MSM4)	G/R/E/-/-
BRNT_GG3x	Unity	RTCM 3.x (Extended)	G/R/-/-/-
BURN_GG3x	Burns Jct	RTCM 3.x (Extended)	G/R/-/-/-
BURN_GNSS	Burns Jct	RTCM 3.x (MSM4)	G/R/E/C/J
CABL_GG3x	Cape Blanco	RTCM 3.x (Extended)	G/R/-/-/-
CABL_GNSS	Cape Blanco	RTCM 3.x (MSM4)	G/R/E/C/J
CATH_GG3x	Cathlamet	RTCM 3.x (Extended)	G/R/-/-/-
CATH_GNSS	Cathlamet	RTCM 3.x (MSM4)	G/R/E/C/J
CHEM_GG3x	CHEMULT	RTCM 3.x (Extended)	G/R/-/-/-
CHEM_GNSS	CHEMULT	RTCM 3.x (MSM4)	G/R/E/C/J
CHZZ_GG3x	Tillamook	RTCM 3.x (Extended)	G/R/-/-/-
CHZZ_GNSS	Tillamook	RTCM 3.x (MSM4)	G/R/E/C/J
COBO_GG3x	Beaverton	RTCM 3.x (Extended)	G/R/-/-/-

NTRIP Network RTK Product List

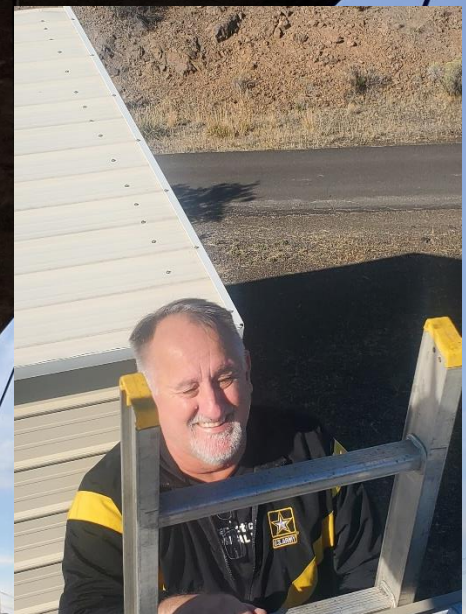
May 29, 2024
Port 9881

NTRIP Mount Point	Data format	Constellations
Nearest_Single_RTCM23	RTCM 2.x (Type 1,2,18,19)	G/-/-/-/-
Nearest_Single_RTCM3	RTCM 3.x (Extended)	G/-/-/-/-
MAX_RTCM3	MAX RTCM 3.x (Extended,1015,1016)	G/-/-/-/-
IMAX_CMR_AG	i-MAX CMR+	G/-/-/-/-
IMAX_RTCM23	i-MAX RTCM 2.x (Type 18,19)	G/-/-/-/-
IMAX_CMR+	i-MAX CMR+	G/R/-/-/-
IMAX_RTCM3	i-MAX RTCM 3.x (Extended)	G/-/-/-/-
IMAX_RTCM3_AG	i-MAX RTCM 3.x (Extended)	G/-/-/-/-
Port 9882		
NTRIP Mount Point	Data format	Constellations
GIS_Nearest	RTCM 3.x (Extended)	G/R/-/-/-
IMAX_GG_CMR_AG	i-MAX CMR+	G/R/-/-/-
Nearest_Single_GG_RTCM3	RTCM 3.x (Extended)	G/R/-/-/-
MAX_GG_RTCM3	MAX RTCM 3.x (Extended,1015,1016)	G/R/-/-/-
IMAX_GG_RTCM3	i-MAX RTCM 3.x (Extended)	G/R/-/-/-
IMAX_GG_CMR	i-MAX CMR+	G/R/-/-/-
MAX_GG_RTCM3_AG	MAX RTCM 3.x (Extended,1015,1016)	G/R/-/-/-
IMAX_GG_RTCM3_AG	i-MAX RTCM 3.x (Extended)	G/R/-/-/-
IMAX_GNSS	i-MAX RTCM 3.x (MSM4)	G/R/E/-/-
Nearest_Single_GNSS	RTCM 3.x (MSM4)	G/R/E/-/-
IMAX_GNSS_AG	i-MAX RTCM 3.x (MSM4)	G/R/E/-/-
IMAX_GNSS5	i-MAX RTCM 3.x (MSM5)	G/R/E/-/-

G= GPS; R= Russian (GLONASS); E= European (Galileo); C= Chinese (BeiDou); J= Japanese (QZSS)

[Web link: RTK Products \(oregon.gov\)](http://oregon.gov)

Questions?



Randy Oberg, Lead Geodetic Surveyor
(503.881.2889)

Randy.D.Oberg@odot.Oregon.gov

Eric Zimmerman, Geodetic Associate
(503.779.5069)

Eric.P.Zimmerman@odot.Oregon.gov

Oregon Real-time GNSS Network

<https://www.oregon.gov/odot/orgn/pages/index.aspx>